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University Bulletin C Series V, No. 4

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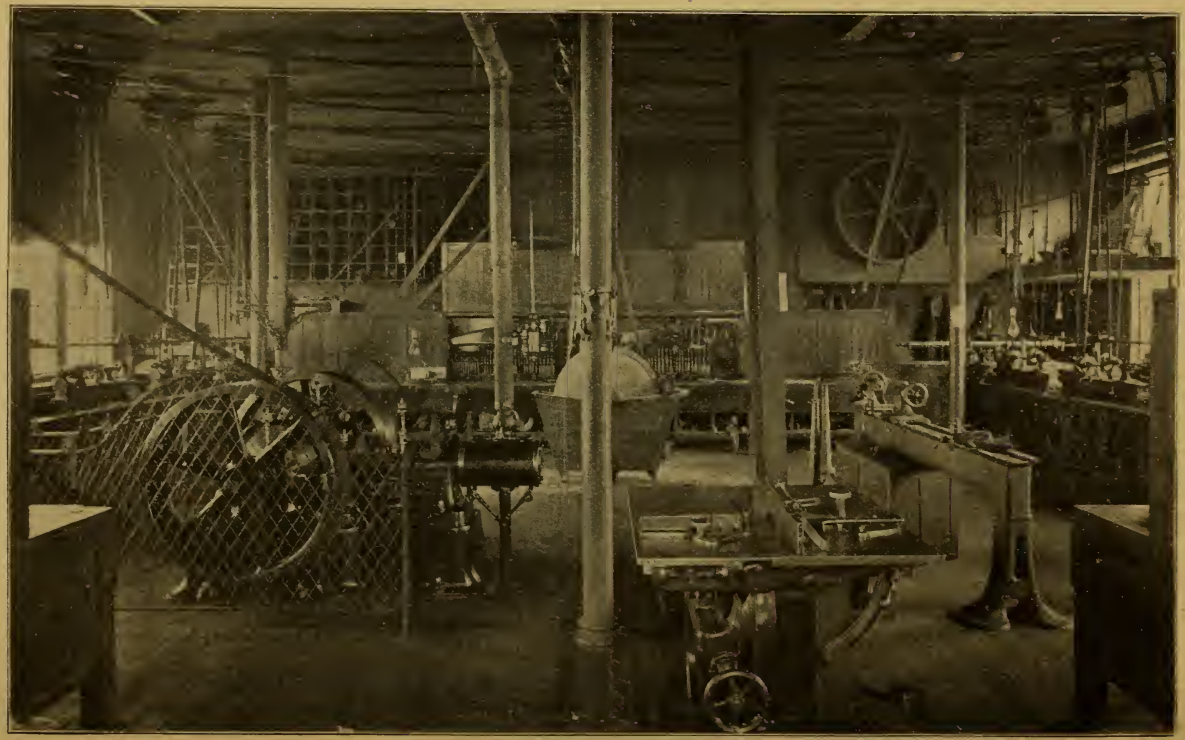
The University of Nebraska

The School of Mechanic Arts

The University Bulletins are issued every month during each collegiate year and are entered at the postoffice at Lincoln, Nebraska, as second-class matter.

LINCOLN
THE UNIVERSITY PRESS
APRIL, 1900



THE WOOD SHOP

The School of Mechanic Arts

A Two Years' Course in the Elements of Mechanical Construction

The importance of technical education as an essential factor in the industrial development of a community is now almost universally recognized. In consequence of this fact we find well equipped engineering courses in a majority of the leading American universities. Too little attention, however, has been given in this country to the more elementary technical education which fits a young man to take up intelligently some honorable trade, and which by virtue of his better education, enables him to rise to positions of greater trust and responsibility than would be possible without some scientific training.

The School of Mechanic Arts was organized to give certain fundamental principles of mechanical work to those young men who had neither the time, preparation, nor money to take up a regular course in engineering. It is not a trade school since no specific trade is taught, but the elements of all of the more important trades are given, thus enabling the student to intelligibly choose the work he finds most congenial. In a state like Nebraska it is difficult for a young man of strong mechanical tastes to secure opportunities to learn a trade, so the great importance of this School to a community is the more apparent.

REQUIREMENTS FOR ADMISSION

The applicant for admission to the School must be at least sixteen years of age, and he must satisfy those in charge of the School that he can successfully carry the work. A good knowledge of arithmetic and English grammar is essential. No entrance examinations are required except where the applicant enters after the beginning of the term. It is impossible for students to enter the School at the middle of the year.

While the School is not a preparatory school to the regular University, and while there is considerable required work in the Engineering groups not to be obtained in the School, this two years' course will be found of great benefit to all taking the regular University courses.

The next year begins September 11th, 1900.

COURSES OF STUDY

FIRST YEAR

First Semester.

1. Mathematics—Algebra ..... 5 hours.
2. English, Rhetoric and Composition ..... 5 "
3. Elementary Engineering ..... 2 "
4. Mechanical Drawing ..... 2 "
5. Shop Work—Carpentry, Wood Turning ..... 3 "

Second Semester.

1. Mathematics—Algebra and Plane Geometry ..... 5 hours.
2. English ..... 5 "
3. Elementary Engineering ..... 2 "
4. Mechanical Drawing ..... 2 "
5. Shop Work—Pattern Making and Foundry Work ..... 3 "

SECOND YEAR

First Semester.

1. Mathematics—Geometry and Trigonometry ..... 4 hours.
2. English—Theme Writing ..... 1 "
3. Physics ..... 3 "
4. Elementary Engineering ..... 2 "
5. Elementary Steam Engineering ..... 2 "
6. Mechanical Drawing ..... 2 "
7. Shop Work—Forge Work ..... 4 "

Second Semester.

1. Mathematics—Geometry and Trigonometry ..... 5 hours.
2. English—Theme Writing ..... 1 "
3. Physics ..... 3 "
4. Elementary Electrical Engineering ..... 2 "
5. Machine Design ..... 2 "
6. Shop Work—Machine Shop Work ..... 5 "

EQUIPMENT

The *Wood Shop* is equipped with places for forty-two students in one section, twenty-five at the bench and seventeen at the lathe. Besides the necessary small tools at the benches and lathes, the shop contains a combined cross-cut and rip saw, a scroll saw, two grindstones, a universal trimmer, and numerous small special tools.

The *Forge Shop* will accommodate twenty-four students at one time, there being that number of stationary forges with sets of tools. The blast is supplied and the smoke is removed by a large combination blower and exhauster.

The *Foundry* will accommodate from twenty to twenty-five men at one time. It is fully equipped with places for bench and floor molding. It contains a cupola furnace, a core oven and all the necessary appliances for molding and casting.

THE FOUNDRY

The *Machine Shop* is not fully equipped except for work in filing and chipping in iron. It is hoped that in a short time the equipment will be sufficient to enable a course in machine work in metals to be given.

The *Drawing Room* is equipped with a large number of tables, but the student is required to furnish his own drawing instruments, boards, etc.

EXPENSES

Tuition is *free* to everybody. An entrance fee of $5.00 is charged at the beginning of the first year. All tools and materials are supplied free. A deposit of three dollars per year is required in the shops to cover breakage and loss of tools, waste of material, etc.

Board may be obtained from $2.00 to $2.50 per week, room rent being from $4.00 to $10.00 per month. It is found that $150.00 will pay all necessary expenses for one school year.

THE ENGINEERING COURSE

To those students who have had the requisite preparation, the University offers advanced college courses in Civil, Mechanical, and Electrical Engineering, leading to the degree of Bachelor of Science in Civil, Mechanical or Electrical Engineering, depending upon the course pursued. For further information regarding these courses, consult the University Calendar.

Further information regarding the School of Mechanic Arts or the Departments of Engineering may be obtained by addressing

C. R. Richards, *Director of the School of Mechanic Arts*,

or

H. G. Shedd, *The University Publisher*,

The University of Nebraska, Lincoln, Nebraska.

THE FORGE SHOP

THE MECHANIC ARTS HALL (LOOKING SOUTH)

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